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TITLE: SINTERED FRICTION MATERIAL
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ABSTRACT:

PURPOSE: To obtain strength endurable even for use under a heavy load by specifying the quantity of graphite contained in each sliding surface on an outer and an inner peripheral part in copper series or iron series sintered friction material.

CONSTITUTION: A disc brake pad 10 made of sintered friction material is formed into a sheet metal shape, for instance being a=80mm, b=50mm, c=10mm in its dimensions, by molding and sintering mixed powder composed of graphite and Cu which are different in their quantity between an outer peripheral part 12 having a width d from 2.5 to 10mm and an inner peripheral

part 14, and Sn,
ZrO₂ and Pb contained for a residual part. The
content of graphite is
regulated by altering the quantity of Cu serving as base
metal to make the
outer peripheral part 12 have a weight percentage from 2.0
to 8.0 in
consideration of rigidity, a crack due to difference in
strength between the
outer and the inner peripheral part under a heavy load,
deposition on an
opposite material, abrasion, friction characteristics, and
the inner peripheral
part 14 have the weight percentage from 9.0 to 16.0 in the
consideration of the
friction characteristics, abrasion characteristics and the
rigidity. Thus
strength endurable even for use under the heavy load can be
obtained with no
reduction in the friction characteristics and the abrasion
one.

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